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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/859,708	05/17/2001	David M. Shaw	12293-19	4131
50086 7590 04/13/2007 LAW OFFICE OF DAVID H. JUDSON 15950 DALLAS PARKWAY SUITE 225 DALLAS, TX 75248			EXAMINER TAYLOR, NICHOLAS R	
			ART UNIT 2141	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	04/13/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No. 09/859,708	Applicant(s) SHAW, DAVID M.	
	Examiner Nicholas R. Taylor	Art Unit 2141	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 March 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 15,16,18 and 20-31 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 15,16,18 and 20-28 is/are rejected.
- 7) ☒ Claim(s) 29-31 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 March 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 15, 16, 18, and 20-31 have been examined. Claims 15, 16, 18, and 20-28 are rejected. Claims 29-31 are objected to.

Specification

2. All references to application 09/478,571 (e.g., on page 8) should be updated to reflect the current status as U.S. Patent No. 6,665,726.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 31 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically, the claim is dependent on itself. For the purposes of this action, it is interpreted that the claim correctly depends on claim 30.

Claim Objections

5. Claim 15 is objected to for being indefinite and failing to include essential steps. The amended claim teaches an apparatus comprising "issuing a request to each of a set of servers and receiving a response to the request." However, prior to these requests it is not clearly stated how the set of servers is received or created. The

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apparatus of claim 15 must receive the set of servers from an outside source, as the system disclosed in the specification is neither preconfigured with a list of servers nor designed for broadcasting requests.

Allowable Subject Matter

6. Claims 29-31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 15, 16, 18, 20-25, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goldszmidt et al. (U.S. Patent 6,195,680), Wynblatt et al. (U.S. Patent 6,546,421), and Lumelsky et al. (U.S. Patent 6,377,996).

9. As per claim 15, Goldszmidt teaches an apparatus, comprising:
a processor; a media player; (Goldszmidt, column 5, lines 26-31, and column 8, lines 19-23)

a program code module comprising code executable by the processor to carry out the following method steps:

as a media stream is being received from a first server and rendered by the media player (Goldszmidt, column 5, lines 54-59, and column 8, lines 19-23),,
determining whether the media stream is acceptable according to a given metric;
(Goldszmidt, column 7, lines 10-45)

if the media stream is not acceptable, and as the media stream continues to be received, taking a given action to initiate delivery of the media stream from the given server; receiving the media stream from the given server; and (Goldszmidt, column 7, lines 10-45)

when the given offset is reached, rendering in the media player the media stream received from the given server (Goldszmidt, column 8, lines 19-23).

Goldszmidt teaches issuing requests to servers and selecting a server based on a response, yet accomplishes this via an intermediary (see Goldszmidt, fig. 4).

Therefore, Goldszmidt fails to entirely teach issuing a request to each of a set of servers and receiving a response to the request, and using data associated with the response from each of the set of servers to identify a given server in the set of servers.

Wynblatt teaches issuing a request to a set of servers, receiving a response, and using data associated with the response to identify a given server in the set of servers in which to acquire a media stream (Wynblatt, col. 5, line 50 to col. 6, line 15; see fig. 3; see also re-selection of col. 7, lines 36-57)

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to have combined Goldszmidt and Wynblatt to provide the server requests of Wynblatt in the system of Goldszmidt, because doing so would allow continuous and automatic server selection in a client system (Wynblatt, col. 1, lines 55-59; where the system structure is also simplified by decreasing the need for an intermediary control server).

Goldszmidt-Wynblatt teaches switching the to the stream on the second server using buffers and advanced portions, yet fails to specifically teach wherein the given action includes the steps of:

(a) creating a buffer; (b) receiving from the first server and caching in the buffer advanced portions of the media stream; (c) issuing a request to the given server to initiate delivery of the media stream at a given offset; and (d) rendering the advanced portions of the media stream.

Lumelsky teaches switching streaming media streams between a primary and a secondary stream (Lumelsky, column 5, line 55 to column 6, line 7, and figure 2) where a buffer is used to cache the advanced portions of the stream (Lumelsky, column 6, lines 41-59) after a client request to initiate the second stream, and the advanced portion is rendered until the offset is reached (Lumelsky, column 7, lines 27-56).

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to have combined Lumelsky and Goldszmidt-Wynblatt to provide the stream switching of Lumelsky in the system of Goldszmidt-Wynblatt, because doing

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so would enhance the playback to provide a smooth and uninterrupted stream at the client end (Lumelsky, column 6, lines 41-59).

10. As per claim 16, Goldszmidt-Wynblatt-Lumelsky teaches the system further wherein the code is executable by the processor to initiate an instruction to the first server to cease transmission of the media stream before rendering the advanced portions of the media stream (Goldszmidt, column 9, lines 7-23, specifically figure 3a).

11. As per claim 18, Goldszmidt-Wynblatt-Lumelsky teaches the system further wherein the code is executable by the processor to match data packets received from the first server and the given server such that the media stream rendered in the media player appears continuous (Goldszmidt, column 9, line 61 to column 10, line 5, and column 10, lines 44-48).

12. As per claim 20, Goldszmidt-Wynblatt-Lumelsky teaches the system further wherein the media stream is not acceptable if it is being thinned by the first server (Goldszmidt, column 9, lines 7-23).

13. As per claim 21, Goldszmidt-Wynblatt-Lumelsky teaches the system further wherein the media stream is not acceptable if a given indication from the first server is received (Goldszmidt, column 7, lines 10-45).

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14. As per claim 22, Goldszmidt-Wynblatt-Lumelsky teaches the system further wherein the given indication is that the first server will be unavailable (Goldszmidt, column 7, lines 10-45).

15. As per claim 23, Goldszmidt-Wynblatt-Lumelsky teaches the system further wherein the code executable by the processor determines that the given server has a response time that differs from a response time of at least one other server in the set of servers (Goldszmidt, column 10, lines 6-19).

16. As per claim 24, Goldszmidt-Wynblatt-Lumelsky teaches the system further wherein the code executable by the processor determines whether the media stream is acceptable periodically as the media stream is being delivered (Goldszmidt, column 9, lines 7-23).

17. As per claim 25, Goldszmidt-Wynblatt-Lumelsky teaches the system further wherein the code executable by the processor records given data associated with receipt of the media stream (Goldszmidt, column 5, lines 33-49).

18. As per claim 27, Goldszmidt-Wynblatt-Lumelsky teaches the system further wherein the request is an RTSP OPTIONS command (Wynblatt, col. 2, lines 54-67).

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19. Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goldszmidt et al. (U.S. Patent 6,195,680), Wynblatt et al. (U.S. Patent 6,546,421), and Lumelsky et al. (U.S. Patent 6,377,996), further in view of Ravi et al. (U.S. Patent 6,292,834).

20. As per claim 26, Goldszmidt-Wynblatt-Lumelsky teaches the above, yet fails to teach wherein the advanced portions of the media stream are created by instructing the first server to increase a delivery rate of the media stream or by instructing the media player to decrease a rendering rate of the media stream.

Ravi teaches modifying media stream delivery rates in order to keep an advanced portion buffer at an optimal capacity (Ravi, col. 6, lines 32-62).

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to have combined Goldszmidt-Wynblatt-Lumelsky and Ravi to provide the 2 of Goldszmidt-Wynblatt-Lumelsky in the system of Ravi, because doing so would improve the reliability and efficient transmission of streams from servers to clients while efficiently using network resources (Ravi, col. 2, lines 64-67).

21. Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goldszmidt et al. (U.S. Patent 6,195,680), Wynblatt et al. (U.S. Patent 6,546,421), and Lumelsky et al. (U.S. Patent 6,377,996), further in view of Gulbrandsen et al. ("RFC 2782").

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22. As per claim 27, Goldszmidt-Wynblatt-Lumelsky teaches the above, yet fails to teach wherein the request is associated with a DNS SRV protocol..

Gulbrandsen teaches the use of the DNS SRV protocol (Gulbrandsen, overview and rationale sections).

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to have combined Goldszmidt-Wynblatt-Lumelsky and Gulbrandsen to provide the DNS SRV command of Gulbrandsen in the system of Goldszmidt-Wynblatt-Lumelsky, because doing so would enable the use of several servers for a single domain and to easily designate backup servers (see Gulbrandsen, overview and rationale).

Conclusion

23. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas Taylor whose telephone number is (571) 272-3889. The examiner can normally be reached on Monday-Friday, 8:00am to 5:30pm, with alternating Fridays off.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharja can be reached on (571) 272-3880. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Nicholas Taylor
Examiner
Art Unit 2141



RUPAL DHARIA
SUPERVISORY PATENT EXAMINER